

BASF Corporation

8ENQ-0496-13633

BASF

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April 23, 1996

Document Processing Center (TS-790)
Attention: 8(e) Coordinator
Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency
401 M Street, SW
Washington, DC 20460

Contains No CBI

96 APR 26 PM 2:59

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MAY 1 1996

Ladies and Gentlemen:

Subject: Notice in Accordance with Section 8(e) of TSCA - Aquatic toxicity data for Basolan® DC (sodium dichloroisocyanurate, CAS No. 2893-78-9).

BASF Corporation is submitting information regarding the aquatic toxicity of **Basolan® DC**. A recently received MSDS from Aktiengesellschaft, Ludwigshafen, Germany, reports a 48 hr EC/LC₍₅₀₎ of < 1.0 mg/l in rainbow trout (Oncorhynchus mykiss).

This information will be conveyed to customers via an updated Material Safety Data Sheet.

BASF Corporation has not received a copy of the report for this study. When one is received, it will be forwarded to the Agency.

If you have any questions please call me at (313) 246-6207.

Very Truly Yours,

ORIGINAL

BASF Corporation

Edward Kerfoot lds

Edward J. Kerfoot, Ph.D.
Director, Toxicology & Product Regulations



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/Attachment

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7/11/96

96 MAY -7 AM 8:53

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DEPT NCIC

BASF Safety data sheet
Date / revised: 05.07.1995
Product: BASOLAN* DC

ET 00181 (D/E)
version 9

(Print date: 19.02.1996)

1. Substance/preparation and company name

BASOLAN* DC

Company:

BASF Aktiengesellschaft
ET/PU
D-67056 Ludwigshafen
Tel.: 0621-60-99333

Emergency information:

BASF works fire brigade Ludwigshafen
Tel.: 0621-60-43333

Fax: 0621-60-92664

2. Composition/information on ingredients

Chemical nature

sodium dichloroisocyanurate
CAS-No. 2893-78-9

EINECS-No. 220-767-7

3. Possible hazards

Critical hazards to man and the environment:

R8 - Contact with combustible material may cause fire.
R22 - Harmful if swallowed.
R31 - Contact with acids liberates toxic gas.
R36/37 - Irritating to eyes and respiratory system.
R50 - Very toxic to aquatic organisms.

4. First aid measures

General advice:

Remove contaminated clothing. If danger of loss of consciousness, place patient in recovery position and transport accordingly. Apply artificial respiration if necessary. First-aiders should pay attention to their own safety.

If inhaled:

keep patient calm, remove to fresh air, summon medical help

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Rinse mouth immediately and then drink plenty of water, induce vomiting, summon medical aid.

5. Fire fighting measures

Suitable extinguishing media:

dry extinguishing media, foam, carbon dioxide (CO2)

Unsuitable extinguishing media for safety reasons:

water

The following can be given off in a fire: hydrogen chloride

Special protective equipment:

Wear self-contained breathing apparatus and protective suit.

Further information:

Contaminated extinguishing water must be disposed of in accordance with local regulations.

6. Accidental release measures

Personal precautions:

Breathing protection required.

Sources of ignition should be kept clear.

Environmental precautions:

The product should not be allowed to find its way into inshore waters without pretreatment (biological sewage treatment plant).

Methods for cleaning up:

Pick up with suitable appliance and dispose of.

7. Handling and storage

Handling:

Breathing must be protected when large quantities are decanted without local exhaust ventilation.

Protection against fire and explosion:

Sources of ignition should be kept clear.

Keep away from combustible material.

Storage

Keep tightly closed in a dry and cool place.

Ensure thorough ventilation of stores and work areas.

8. Exposure controls and personal protection

Additional information on the lay-out of technical plant
(see 7)

Components with workplace control parameters

Decomposes gradually and gives off Chlorine when affected by atmospheric humidity.

Observe the appropriate MAK value (Germany).

Personal protective equipment

Respiratory protection:

Do not breathe dust.

Hand protection:

protective gloves

Eye protection:

goggles

Body protection:

closed working clothing

General safety and hygiene measures:

The usual precautions for the handling of chemicals must be observed.

9. Physical and chemical properties

Form: powder

Colour: white

Odour: product specific

Change in physical state

Melting point/melting range: >250 °C

Flash point: n.a.
Explosion hazard: dust explosion hazard
Fire promoting properties: oxidizing
Vapour pressure: n.a.
Density: (20 °C) 0.8-1.1 g/cm³
Bulk density: approx. 950 kg/m³
Solubility in water: (25 °C) approx. 250 g/l
Solubility in other solvents: partly soluble
pH value: (at 100 g/l, 20°C) 7

10. Stability and reactivity

Conditions to avoid:
(see section 7)
Starts to decompose at 240°C. (approx.)

Substances to avoid:
ignitable substances, oxidizing agent, water

Hazardous reactions: explosive

Hazardous decomposition products: chlorine

11. Toxicological information

Acute toxicity

LD50/oral/rat: 1670 mg/kg

Acute inhalation hazard (rat; test results depending on toxicity and volatility): see 10.3

Primary skin irritation/rabbit/OECD 404: non-irritant
Primary mucous membrane irritation/rabbits' eyes/OECD 405: irritant

12. Ecological information

Behaviour and environmental fate

As active chlorine is given off, the substance can have a toxic effect on bacteria or aquatic life in biological effluent treatment plants or in water courses, rivers etc. Do not discharge product into the environment without control.

Ecotoxic effects

Toxicity to bacteria: >10 mg/l Warburg test

Toxicity to fish:
EC/LC50(48 h): <1 mg/l, *Oncorhynchus mykiss*
EC/LC0(48 h): 0.68 mg/l, *Oncorhynchus mykiss*

Further ecological information

COD-Value: 10 mg O₂/g

Contains organically bound chlorine, but in hydrolyzable form. The product may have a halogenizing effect and therefore contribute to the OBH.

13. Disposal considerations

Product:

Must be dumped or incinerated in accordance with local regulations.

Disposal code no. for unused product: 59301(Germany)

Contaminated packaging:

Uncontaminated packs can be re-used.

Packs that cannot be cleaned should be disposed of in the same manner as the contents.

14. Transport information

Land transport

ADR/RID/GGVSt/GGVE Class: 5.1 Item number/letter: 26B

Warning panel Hazard-no: 50 Substance no.: 2465

UN-No: 2465

Description of the goods: Dichlorisocyanursaeure, trocken

Remarks: offensive.

Stow/store/load separately from food, feed and consumable items.

Inland waterway transport

ADN/ADNR Class: 5.1 Item number/letter: 26B

Description of the goods: Dichlorisocyanursaeure, trocken

Remarks: offensive.

Stow/store/load separately from food, feed and consumable items.

Sea transport

IMDG/GGVSee Class: 5.1 UN-No: 2465 PG: II

EMS: 5.1-06 MFAG: 740

Marine pollutant:

Proper technical name: Dichloroisocyanuric acid, dry

Remarks: offensive.

Stow/store/load separately from food, feed and consumable items.

Air transport

ICAO/IATA Class: 5.1 UN/ID-No.: 2465 PG: II

Proper technical name: Dichloroisocyanuric acid, dry

Remarks: offensive.

Stow/store/load separately from food, feed and consumable items.

Other information

15. Regulatory information

Labelling according to EEC Directives

O - Oxidizing

Xn - Harmful

R8 - Contact with combustible material may cause fire.

R22 - Harmful if swallowed.

R31 - Contact with acids liberates toxic gas.

R36/37 - Irritating to eyes and respiratory system.

S8 - Keep container dry.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S41 - In case of fire and/or explosion do not breathe fumes.

N - Dangerous for the environment

R50 - Very toxic to aquatic organisms.

S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

National legislation/regulations

German "Flammable Liquids" classification (VbF): none

Water hazard class: WGK (2) (Germany) (BASF self-classification)
(water hazardous)

16. Other information

n.a. = not applicable
n.d.a. = no data available

A backslash in the left hand margin indicates an amendment from the previous version.

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.

Triage of 8(e) Submissions

Date sent to triage: _____

NON-CAP

CAP

Submission number: 13633 A

TSCA Inventory: Y N D

Study type (circle appropriate):

Group 1 - Gordon Cash (1 copy total)

ECO

AQUATO

Group 2 - Ernie Falke (1 copy total)

ATOX

SBTOX

SEN

w/NEUR

Group 3 -HERD (1 copy each)

STOX

CTOX

EPI

RTOX

GTOX

STOX/ONCO

CTOX/ONCO

IMMUNO

CYTO

NEUR

Other (FATE, EXPO, MET, etc.): _____

Notes:

- This is the **original 8(e)** submission; refile after triage evaluation.
- This **original** submission has been **split**; rejoin after triage evaluation.
- Other:

Photocopies Needed for Triage Evaluation

entire document: 0 1 2 3

front section and CECATS: 0 1 2 3

Initials: _____

Date: _____

Submission # BEHO: 0496-13633 SEQ. A

TYPE: (INT) SUPP FLWP
SUBMITTER NAME: BASF Corporation

SUB. DATE: 04/23/96 OTS DATE: 04/26/96 CSRAD DATE: 07/11/96

CHEMICAL NAME: BASOLAN DC
CAS# 2593-78-9

- VOLUNTARY ACTIONS
- 0401 NO ACTION REPORTED
 - 0402 STUDIES PLANNED/IN PROGRESS
 - 0403 NOTIFICATION OF WORKING METHODS
 - 0404 LABEL/MSDS CHANGES
 - 0405 PROCESS/HANDLING CHANGES
 - 0406 APP/USE DISCONTINUED
 - 0407 PRODUCTION DISCONTINUED
 - 0408 CONFIDENTIAL

| INFORMATION TYPE: | P F C | INFORMATION TYPE: | P F C |
|--------------------------|----------|---------------------------|----------|
| ONCO (HUMAN) | 01 02 04 | EPICLIN | 01 02 04 |
| ONCO (ANIMAL) | 01 02 04 | HUMAN EXPOS (PROD CONTAM) | 01 02 04 |
| CELL TRANS (IN VITRO) | 01 02 04 | HUMAN EXPOS (ACCIDENTAL) | 01 02 04 |
| MUTA (IN VITRO) | 01 02 04 | HUMAN EXPOS (MONITORING) | 01 02 04 |
| MUTA (IN VIVO) | 01 02 04 | ECOAQUA TOX | 01 02 04 |
| REPRO/TERATO (HUMAN) | 01 02 04 | ENV. OCCUREL/FATE | 01 02 04 |
| REPRO/TERATO (ANIMAL) | 01 02 04 | EMER INCI OF ENV CONTAM | 01 02 04 |
| NEURO (HUMAN) | 01 02 04 | RESPONSE REQUEST DELAY | 01 02 04 |
| NEURO (ANIMAL) | 01 02 04 | PROD/COMP/CHEM ID | 01 02 04 |
| ACUTE TOX. (HUMAN) | 01 02 04 | REPORTING RATIONALE | 01 02 04 |
| CHR. TOX. (HUMAN) | 01 02 04 | CONFIDENTIAL | 01 02 04 |
| ACUTE TOX. (ANIMAL) | 01 02 04 | ALLERG (HUMAN) | 01 02 04 |
| SUB ACUTE TOX (ANIMAL) | 01 02 04 | ALLERG (ANIMAL) | 01 02 04 |
| SUB CHRONIC TOX (ANIMAL) | 01 02 04 | METAB/PHARMACO (ANIMAL) | 01 02 04 |
| CHRONIC TOX (ANIMAL) | 01 02 04 | METAB/PHARMACO (HUMAN) | 01 02 04 |

TRIAGE DATA: NON-CBI INVENTORY YES ONGOING REVIEW YES (DROP/REFER) NO (CONTINUE) NO (CONTINUE) NO (CONTINUE)

CAS SR NO IN TRAINING REFER

TOXICOLOGICAL CONCERN: LOW MED HIGH

SPECIES FISH

USE: PRODUCTION:

CONFIDENTIAL

Tox Concern

ID
13633A

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| AQUATO |
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COMMENT

AQUATIC TOXICITY TO THE RAINBOW TROUT, O. MYKISS, IS OF HIGH CONCERN WITH A 48 HOUR LC50 LESS THAN 1.0000 MG/L. SOLUBILITY IS 250 G/L, ITS A SOLID, AND THE MELTING POINT >250C.